

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the applications:

Listing of Claims:

1. (Original) An anthropomorphic phantom for use with ultrasonic imaging procedure training, comprising;

a. phantom body made of an chemical composition capable of being heated and poured into a primary mold to form a simulated human anatomical structure, said chemical composition when cooled to room temperature being self-sealing when punctured;

b. a scattering agent suspended into said chemical composition to simulate the sonographic characteristics of a human anatomical structure; and,

c. at least one blood vessel simulating conduit formed inside said phantom body.

2. (Original) The phantom as recited in Claim 1, wherein said chemical composition is made of thermoplastic elastomers that are heated, mixed together and then poured into said primary mold.

3. (Original) The phantom as recited in Claim 2, wherein said thermoplastic elastomers include at least two elastomers from the following group: styrene, ethylene, butylenes, styrene, and triblock.

4. (Original) The phantom as recited in Claim 3, wherein said thermoplastic elastomers are mixed in a 60:30 ratio.

1 5. (Original) The phantom as recited in Claim 1, wherein said scattering agent is talcum
2 powder.

3
4 6. (Original) The phantom as recited in Claim 1, wherein said scattering agent is glass
5 beads.

6
7 7. (Original) The phantom as recited in Claim 2, wherein said scattering agent is talcum
8 powder.

9
10 8. (Original) The phantom as recited in Claim 2, wherein said scattering agent is glass
11 beads.

12
13 9. (Original) The phantom as recited in Claim 1, further including a pigment mixed with
14 said thermoplastic elastomers.

15
16 10. (Original) The phantom as recited in Claim 5 further including a pigment added to said
17 chemical composition.

18
19 11. (Original) The phantom as recited in Claim 6, further including a pigment added to said
20 chemical composition.

21
22 12. (Original) The phantom as recited in Claim 1, further including at least one cavity
23 formed inside said phantom that simulates an internal anatomical cavity or structure.

1
2 13. (Original) The phantom as recited in Claim 12, further including a substance placed
3 inside said cavity that simulates an anatomical substance in an anatomical cavity during an
4 ultrasonic imaging procedure.

5
6 14. (Original) The phantom as recited in Claim 1, wherein said blood simulating blood
7 vessel is filled with substance that simulates anatomical fluid during an ultrasonic imaging
8 procedure. .

9 15. (Original) The phantom as recited in Claim 14 wherein said blood vessel extends to the
10 outer surface of said phantom and includes a plug that is inserted into the open end of said
11 blood vessel to prevent said fluid from leaking from said vessel.

12
13 16. (Currently Amended) A method of manufacturing an ultrasonic phantom, comprising
14 the following steps:

15 a. forming a primary mold designed to cast a phantom body of an anatomical
16 object;

17 b selecting a suitable volume of a thermoplastic elastomer capable of being
18 heated to ~~fill~~ fill said primary mold;

19 c. heating the thermoplastic elastomer until fluidic;

20 d. selecting one or more sound scattering compounds capable of causing a
21 diffuse scattering pattern in said phantom during an ultrasonic imaging procedure;

22 e. mixing said scattering compounds in the melted said thermoplastic elastomer;

23 f. pouring the melted said thermoplastic elastomer and said scattering agent into

1 said primary mold;

2 g. allowing said mold to cool; and,

3 h. removing said phantom from said primary mold.

4
5 17. (Original) The method of manufacturing an ultrasonic phantom as recited in Claim 16,
6 further comprising the step of placing a secondary mold inside said primary mold to form an
7 internal structure inside said phantom.

8
9 18. (Original) The method of manufacturing an ultrasonic phantom as recited in Claim 17,
10 further comprising the step of removing said secondary mold from said phantom to form a
11 hollow cavity or conduit inside said phantom.

12
13 19. (Original) The method of manufacturing an ultrasonic phantom, as recited in Claim 17,
14 further including the step of filling said hollow cavity or conduit with substance that
15 simulates natural substance in said cavity or conduit during an ultrasonic imaging procedure.

16
17 20 (New) A method of manufacturing an ultrasonic phantom, comprising
18 the following steps:

19 a. forming a primary mold designed to cast a phantom body of an anatomical
20 object;

21 b. selecting at least one secondary mold capable of forming a conduit or cavity in
22 said phantom body;

23 c. placing said secondary mold inside said primary mold;

- 1 d. selecting a suitable volume of an ultrasonic simulating tissue material;
- 2 e. pouring the ultrasonic simulating tissue material into said primary mold and
- 3 over said secondary mold;
- 4 f. allowing said mold to solidify; and,
- 5 g. removing said secondary mold from said phantom body thereby forming a
- 6 hollow void or cavity inside said phantom body.
- 7

8 21. (New) The method as recited in Claim 20, further including the step of heating said

9 ultrasonic simulating tissue material so form a liquid that can be poured into said primary

10 mold.

11

12 22. (New) The method as recited in Claim 21, further including the step of adding a

13 scattering agent to said ultrasonic simulating tissue material to simulate natural living tissue

14 during an ultrasonic procedure.

15

16 23. (New) The method as recited in Claim 20, further including the step of adding an

17 ultrasonic contrasting material to said hollow void or cavity formed inside said phantom

18 body.

19

20

21

22

23

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

Amendments to the Drawings:

Attached is a replacement drawing sheet showing the changes to Fig. 9. Showing the addition of reference numbers 27 and 93 that were omitted from the copy of Fig. 9 originally filed.